

Rules of Epigenetic Silencing: a role for RNA processing

Abstract

Antonios Tatarakis completed his Ph.D in the laboratory of Dr. Iannis Talianidis (“IMBB-FORTH” & “Alexander Fleming” Research Center, Greece), where he studied the role of the basic transcription machinery in regulating gene expression during liver development. For his postdoctoral studies, he moved to Boston and worked with Professor Danesh Moazed at Harvard Medical School, where he focused on the role of epigenetic silencing in mammalian cells. His initial research uncovered how miRNA-mediated silencing couples experiences with subsequent changes in neurons. As a research fellow in Cell Biology in the Moazed Lab, he focused on how epigenetic states that define cellular identity are transmitted to progeny cells. During his talk, he will present his recent work on how heterochromatic domains are maintained during cell division and his future plans in studying heterochromatin function in health and disease.